

CHEMISTRY-11	Chapter#09-Second Half (9.5 – 9.8) Test-1		
	Name:	Class:	ID:
Date: / /	Marks Total: 25	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 09

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- Which of the following solution has the highest boiling point?
 - 5.85% solution of sodium chloride
 - 18.0% solution of Glucose
 - 6.0% solution of Urea
 - 4.0% solution of Sucrose
- Colligative properties are the properties of:
 - Dilute solutions which behave as nearly ideal solutions.
 - Concentrated solutions which behave as nearly non-ideal solutions.
 - Both 'a' & 'b'
 - Neither 'a' nor 'b'
- Water of crystallization of oxalic acid is:
 - 2
 - 10
 - 7
 - 6
- Which one of the following gives acidic solution when dissolved in H₂O?
 - NaCl
 - Na₂SO₄
 - NH₄Cl
 - CH₃COONH₄
- The solubility of NaCl at 0°C is:
 - 14.3 g
 - 37.5 g
 - 75.4 g
 - None
- Which will cause greater elevation in B.P. of water?
 - 0.1 m glucose solution
 - 0.1 m urea solution
 - 0.1 m NaCl solution
 - All equal
- The number of water molecules surrounding a given ion is directly proportional to _____ ratio of the ion.
 - $\frac{\text{Charge}}{\text{Mass}}$
 - $\frac{\text{Mass}}{\text{Charge}}$
 - $\frac{\text{Mass}}{\text{Volume}}$
 - $\frac{\text{Charge}}{\text{Area}}$
- The number of water of crystallization in gypsum is:
 - 2
 - 7
 - 10
 - 5
- Which salt will decrease the pH of the neutral water?
 - CuSO₄
 - Na₃PO₄
 - CH₃COONa
 - All

Maximum Marks: 16

(SUBJECTIVE TYPE)

Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions: (12)

- Define solubility.
- What is discontinuous solubility curve? Give one example.
- What are colligative properties? Why are they called so? Name some of them.
- What is the use of ethylene glycol in an automobile radiator?
- Why hydration energy of Na⁺ ion is smaller than Li⁺ ion?
- What are hydrates? Give examples. How are they formed?

SECTION-II

NOTE: Attempt All Questions:

(04)

Q.3: How is depression in freezing point of a solution is measured by Beckmann's method?